

TABLE I

1	DESIGN SPEED km/h	AVERAGE RUNNING SPEED km/h	MIN. TRUCK SPEED km/h	'L" TRANSITION LENGTH	L/2 TRANSITION LENGTH
	50	45	21	60	30
	60	58	34	85	42
	70	65	40	150	75
	80	71	47	180	90
	100	84	48	230	115
	110	93	48	250	125
ı	120	103	48	275	137

NOTES

S.D = PASSING SIGHT DISTANCE AND T.= DUAL WHEEL TRUCKS.
THE 50% REFERS TO PASSING SIGHT DISTANCE GREATER OR LESS
THAN 50% OF THE ENTIRE LENGTH OF GRADE.

TABLE II

WARRANTS FOR CLIMBING LANE ON TWO LANE HIGHWAYS									
GRADE %	km LENGTH OF GRADE		= 5		⊣v : 10 50% <sd< td=""><td>D: T = 15 50%>SD</td><td>OR MORE</td></sd<>	D: T = 15 50%>SD	OR MORE		
3 TO 4	Ø.8 TO 1.6	500	350	400	300	300	200		
3 TO 4	OVER 1.6	400	300	250	150	200	150		
4 TO 5	Ø.6 TO 1.6	400	250	250	150	200	120		
4 TO 5	OVER 1.6	350	200	250	120	150	100		
OVER 5%	Ø.5 TO 1.6	250	150	150	120	120	100		
OVER 5%	OVER 1.6	200	120	120	100	120	100		

TABLE III

km/h	METERS (d)				
30	55				
40	75				
50	100				
60	125				
70	170				
89	190				
90	215				
100	240				
110	260				

NOTES :

- 1 CLIMBING LANE REQUIRED ON 2 LANE ROADWAY WHEN TRUCK SPEED IS REDUCED TO MINIMUM TRUCK SPEED (TABLE 1) AND DESIGN HOURLY VOLUMES EXCEED THOSE SHOWN IN TABLE II
- 2 CLIMBING LANE SHALL BE CARRIED A MINIMUM OF 100 m OVER CREST, PROVIDED MINIMUM PASSING SIGHT DISTANCE IS AVAILABLE, IF PASSINO SIGHT DISTANCE IS AVAILABLE, THE PASSINO SIGHT DISTANCE IS AVAILABLE, THE RESTRICTED DUE TO HORIZOTAL OR VERTICAL ALIGNMENT, THE CLIMBING LANE SHALL BE EXTENDED TO THE POINT WHERE MINIMUM PASSING SIGHT DISTANCE BECOMES AVAILABLE, PROVIDED TRUCK SPEED AT THAT POINT, OTHERWISE EXTEND CLIMBING LANE TO POINT WHERE MINIMUM TOLERABLE TRUCK SPEED AT THAT POINT, OTHERWISE EXTEND CLIMBING LANE TO POINT WHERE MINIMUM TOLERABLE TRUCK SPEED IS EXCEEDED.
- 3 CLIMBING LANE REQUIRED ON MULTI-LANE ROADWAY WHEN TRUCK SPEED IS REDUCED BELOW MINIMUM TOLERABLE TRUCK SPEED AND ASSIGNING ALL PASSENGER VEHICLES TO THE INNER LANE OR LANES, THE YOLUME EXCEEDS THE DESIGN CAPACITY OF THE REMAINING LANES.
- 4 WHEN TWO OR MORE CLIMBING LANE SECTIONS ARE JUSTIFIED IN CLOSE PROXIMITY, THE CLIMBING LANE SHALL BE CONTINUOUS IF THE SECTIONS BETWEEN WOULD BE LESS THAN 0.8 km. IN LENGTH.
- 5 WHEN THE VOLUME OF THE PROPOSED HIGHWAY APPROACHES THE VALUE WHICH YOULD WARRANT A 4-LANE SECTION AND SUBSECUENT IMPROVEMENT TO 4-LANE IS ANTICIPATED SHORTLY AFTER THE INITIAL DESIGN YEAR, A 4-LANE SECTION SHALL BE PROVIDED INITIALLY IN PLACE OF CLIMBING LANES.
- 6 CLIMBING LANE OF LESS THAN 300 m SHALL BE OMITTED.
- 7 WHERE THERE IS OVER 1.6 km OF NO PASSING SIGHT DISTANCE, PROVIDE MINIMUM 300 m PASSING LANE FOR EACH 1.6 km WHERE DHY EXCEEDS 80.
- 8 FOR TRAFFIC CONTROL SEE STANDARD DRAWING 746-46

Ь DEPARTI UTAH LANES IMBING STD. DWG. NO. 810-5A

PORTATION

ALL DIMENSIONS ARE SHOWN IN METERS (m) UNLESS OTHERWISE NOTED.